PATENT COOPERATION TREATY

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Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P802983/WO/1		FOR FURTHER A	CTION	See Form PCT/IPEA/416			
International application No.		International filing da	nte (day/month/year)	Priority date (day/month/year)			
PCT/EP2004/007843		15.07.200	4	16.07.2003			
International Patent Classific	ation (IPC) or nation	onal classification and	IPC				
F16K11/056, F16H61/02, F16C3/06							
Applicant DAIMLERCHRYSLER AG							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT con:	sists of a total of	5	sheets, including	this cover sheet.			
3. This report is also a	accompanied by Al	NNEXES, comprising:					
a. (sent to	the applicant and	to the International Bu	ureau) a total of 3	sheets, as follows:			
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sh th	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b (sent to	the International I	Sureau anly) a total of	(indicate type and number	of electronic carrier(s))			
0	The Tractricular L	ourcum orași a total or					
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contain	s indications relatir	ng to the following iter	ns:				
Box No. I	Basis of the	report					
Box No. II	Box No. II Priority						
Box No. III	I Non-establis	shment of opinion with	regard to novelty, inventi	ve step and industrial applicability			
Box No. IV	Lack of unit	y of invention					
Box No. V	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. V	Box No. VI Certain documents cited						
Box No. V	Box No. VII Certain defects in the international application						
Box No. V	Box No. VIII Certain observations on the international application						
Date of submission of the demand			Date of completion of this	s report			
Name and mailing address of the IPEA/EP		Authorized officer					
Faccinila No.		Telephone No					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/007843

Box	No. I Basis of the re	port					
1.	With regard to the language indicated under this item.	this report is based on the international application in the language in v	which it was filed, unless otherwise				
	which is the language	translations from the original language into the following language	·				
	\Box	international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4)					
2.	With regard to the elements receiving Office in response this report):	diminary examination (Rule 55.2 and/or 55.3) of the international application, this report is based on (replacement stop an invitation under Article 14 are referred to in this report as "or eation as originally filed/furnished	heets which have been furnished to the riginally filed" and are not annexed to				
	the description:						
	pages		as originally filed/furnished				
	pages* 1-11	received by this Authority on	15.03.2005 with letter of 15.03.2005				
		received by this Authority on	_				
	the claims:	· · · · · · · · · · · · · · · · · · ·					
	nos. 1–10		as originally filed/furnished				
		as amended (together					
							
	· 	received by this Authority on					
	nos.*	received by this Authority on					
	the drawings:						
	sheets 1/1		as originally filed/furnished				
		received by this Authority on	·				
	sheets*	received by this Authority on					
	a sequence listing and	or any related table(s) - see Supplemental Box Relating to Sequence Li	isting.				
3.	The amendments have resulted in the cancellation of:						
	the description, j	pages					
	the claims, nos.	the claims, nos.					
	the drawings, sh	the drawings, sheets/figs					
	the sequence list	ing (specify):					
	any table(s) relat	ted to sequence listing (specify):					
4.		established as if (some of) the amendments annexed to this report and ered to go beyond the disclosure as filed, as indicated in the Supplemen					
	the description,	pages					
	the claims, nos.						
	the drawings, sheets/figs						
	the sequence listing (specify):						
	any table(s) related to sequence listing (specify):						
	-	of those sheets may be marked "superseded."					

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY	PCT/EP2004/007843 ve step or industrial applicability;	
ox No. V Reasoned statement under Article 35(2) with regard to novelty, inventi-		
Statement		
Novelty (N) Claims 1-11	YE	
Claims		
Inventive step (IS) Claims 1-11	VE	
Inventive step (IS) Claims 1-11 Claims		
Industrial applicability (IA) Claims 1-11 Claims		
Claims	NO	
Citations and explanations (Rule 70.7)		
1. Reference is made to the following do	ocuments:	
D1: DE 11 43 069 B (WESTINGHOUSE	BRAKE & SIGNAL)	
31 January 1963 (1963-01-31)		
D2: DE 83 15 687 U (WILO-WERK GME	BH & CO) 4 July	
1985 (1985-07-04)		
D3: PATENT ABSTRACTS OF JAPAN Vo	ol. 0072, No. 21	
(M-246), 30 September 1983 (1	.983-09-30) & JP	
58 113670 A (NIPPON DENSO KK)	, 6 July 1983	
(1983-07-06)		
D4: US-A-4 334 441 (IWANAGA KAZUY	OSHI ET AL) 15	
June 1982 (1982-06-15)		
, , , , , , , , , , , , , , , , , , , ,		
2. D1 is considered the prior art closes	st to the subject	
matter of claim 1. D1 discloses (the re:		
parentheses relate to said document):		
parameter related to bara accument,		
2.1 Changeover valve (11) with at least	one sealing means	
(26) arranged in a housing part (12), it		
for controlling a flow, to guide said se		
at least two valve seats (19, 20) and the		
hoing arranged in a control channel that		

exclusively towards one side of the housing part (12),

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

wherein

in one operating configuration, the sealing means (26) assumes a defined initial control position (on the lower valve seat) in a switched-off state.

- 2.2 The subject matter of claim 1 differs therefore from the known changeover valve in that the sealing means is arranged in a control plate and in that at least three (controllable) channels connect to the flat connection side.
- 2.3 The subject matter of claim 1 is therefore novel (PCT Article 33(2)).
- 2.4 The problem addressed by the present invention can therefore be considered that of integrating the changeover valve in a control plate of a hydraulic control unit (page 5, first paragraph of the description).
- 2.5 The solution to this problem proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

None of the search report citations shows these features and it is not obvious for a person skilled in the art to use these features on the drive as per D1.

In D1 and D2, the changeover valve is arranged in a cylindrical housing.

In D3, the changeover valve is mounted in two control plates, but the three control channels do not connect to one control side.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
In D4, the changeover valve is shown only schematically.						
3. Claims 2-11 are dependent on claim 1 and therefore						
likewise meet the PCT novelty and inventive step						
requirements.						